

PALISADES PLANT
 DOCKET 50-255

NRC FORM 366
 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 M I P A L 1 2 0 0 - 0 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

CON'T
 01 REPORT SOURCE L 6 0 5 0 0 0 2 5 5 7 1 1 1 5 8 3 8 1 1 2 9 8 3 9
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 The A/E (Bechtel) has recently notified Consumers Power Company that the GE
 03 high speed differential relays (model 12CFD12B1A) used for differential pro-
 04 tection of the Palisades Emergency Diesel Generators (D/G) are not seismi-
 05 cally qualified when in the de-energized state. With a D/G operating, the
 06 potential exists that a seismic event could cause spurious operation of the
 07 relays resulting in a trip of the D/G. Condition Reportable per TS
 08 6.9.2a(9). No threat to public health/safety resulted.
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

09 SYSTEM CODE EE 11 CAUSE CODE B 12 CAUSE SUBCODE A 13 COMPONENT CODE RELAY X 14 COMP. SUBCODE X 15 VALVE SUBCODE Z 16
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

17 LER/RO REPORT NUMBER 8 3 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

18 ACTION TAKEN X 19 FUTURE ACTION C 20 EFFECT ON PLANT Z 21 SHUTDOWN METHOD Z 22 HOURS 0 0 0 0 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

19 ATTACHMENT SUBMITTED Y 23 NFRD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER A 25 COMPONENT MANUFACTURER G O 8 0 26
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Cause attributed to improper application of the subject relays in the origi-
 11 nal plant design. Palisades plans to replace the relays with seismically
 12 qualified relays prior to returning the plant to operation from the current
 13 refueling outage. The D/G output breakers in switchgear rooms 1-C and 1-D
 14 have been caution tagged, identifying the potential problem with the relays.
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

15 FACILITY STATUS H 28 % POWER 0 0 0 0 29 OTHER STATUS NA 30 METHOD OF DISCOVERY D 31 DISCOVERY DESCRIPTION Notification from A/E 32
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

16 ACTIVITY RELEASED OF RELEASE Z 33 Z 34 AMOUNT OF ACTIVITY NA 35 LOCATION OF RELEASE NA 36
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

20 PUBLICITY ISSUED N 44 DESCRIPTION NA 45
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

8312090169 831129
 PDR ADOCK 05000255
 S PDR

NRC USE ONLY

JGKeppler, Administrator
Attachment to LER 83-072
Consumers Power Company
Palisades Plant
Docket 50-255
November 29, 1983

Notification was recently received from the A/E (Bechtel Power Corporation) of a problem experienced at another nuclear power plant with General Electric High Speed Differential Relays, model 12CFD12B1A. The A/E and the manufacturer (GE) have determined that the relays are not seismically qualified when in the de-energized state, and are, in fact, sensitive to mechanical shock.

Six (6) of the subject relays are used for differential protection of the Palisades Plant Emergency Diesel Generators. The design at Palisades is such that with the diesels operating, the potential exists that a seismic event (or other vibration) could cause spurious operation of the relays resulting in a trip of the diesel generator. If this occurred, it would be possible to restart the diesel generator as the functioning of the relays do not "lockout" the diesel generator from the electrical buses.

Palisades Plant plans to replace the relays with seismically qualified relays prior to returning the plant to power operation from the current Refueling Outage. In the interim period, the diesel generator output breakers in switchgear rooms 1-C and 1-D have tags attached which describes this potential problem with the subject relays and instructs the operators to re start the D/Gs in the event of a trip.



Consumers
Power
Company

General Offices: 1945 West Parnall Road, Jackson, MI 49201 • (517) 788-0550

November 29, 1983

James G Keppler, Administrator
Region III
US Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - LICENSEE EVENT REPORT 83-72 (PHASE DIFFERENTIAL RELAYS NOT
SEISMICALLY QUALIFIED)

Attached please find Licensee Event Report 83-72 (Phase Differential Relays
Not Seismically Qualified) which is reportable to the NRC per Technical
Specification 6.9.2.a.(9).

Brian D Johnson
Staff Licensing Engineer

CC Director, Office of Nuclear Reactor Regulation
Director, Office of Inspection and Enforcement
NRC Resident Inspector - Palisades

DEC - 2 1983

1/1 IE 22